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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

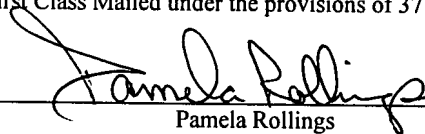
In re United States Patent Application of:	)	Docket No.:	2771-663
	)		
Applicants:	)	CHEN, Ing-Shin, et al.	)
	)		
Application No.:	)	10/775,473	)
	)		
Patent No.:	)	7,193,187	)
	)		
Title:	)	FEEDBACK CONTROL	)
	)	SYSTEM AND METHOD FOR	)
	)	MAINTAINING CONSTANT	)
	)	RESISTANCE OPERATION	)
	)	OF ELECTRICALLY	)
	)	HEATED ELEMENTS	)

Customer No.:

**23448**

**FIRST CLASS MAIL CERTIFICATE**

I hereby certify that I am mailing this document to the Commissioner for Patents on the date specified, in an envelope addressed to Commissioner for Patents, Attn: Certificate of Correction Branch, P.O. Box 1450, Alexandria, VA 22313, First Class Mailed under the provisions of 37 CFR 1.8.

  
Pamela Rollings

October 9, 2007  
Date of Mailing

**Certificate**  
**OCT 16 2007**  
**of Correction**

**SUBMISSION OF CERTIFICATE OF CORRECTION UNDER THE PROVISIONS OF**  
**37 CFR § 1.322 AND 35 U.S.C. § 254 FOR U.S. PATENT NO. 7,193,187**

Commissioner for Patents  
Attn: Certificate of Correction Branch  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

**OCT 16 2007**

Enclosed is a Certificate of Correction submitted under the provisions of 35 U.S.C. §254, to correct errors of the Patent and Trademark Office in the printing of the above-identified U.S. Patent.

In addition to the errors of the Patent and Trademark Office, a review of the patent has revealed the presence of errors attributable to applicants/patentees, which however are of a minor and self-evident character, as listed below:

Column 7, line 32, "BRIEF DESCRIPT" should be -- BRIEF DESCRIPTION --.

Column 14, line 2, "provided as a input" should be -- provided as an input --.

While the foregoing errors attributable to applicants/patentees are not sufficiently serious in nature to warrant the filing of Certificate of Correction under 37 CFR § 1.322, applicants/patentees nonetheless wish to bring same to the attention of the Patent and Trademark Office for inclusion in the prosecution record of the above-identified patent.

Respectfully submitted,



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**Enclosures:**

**Certificate of Correction [2 pages]**

<p>The USPTO is hereby authorized to charge any deficiency or credit any overpayment of fees properly payable for this document to Deposit Account No. 08-3284</p>
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OCT 16 2007

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

Page 1 of 2

PATENT NO. : 7,193,187

APPLICATION NO.: 10/775,473

ISSUE DATE : March 20, 2007

INVENTOR(S) : CHEN, Ing-Shin, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Cover page, Item (54), Inventors, add -- Richard Kramer, Sharon, MA (US) --.

Column 3, line 20: " $\alpha_p$ " should be --  $\alpha_p$  --.

Column 4, line 18: " $\alpha_p$ " should be --  $\alpha_p$  --.

Column 6, line 1: " $\alpha_p$ " should be --  $\alpha_p$  --.

Column 6, line 59: " $\alpha_p$ " should be --  $\alpha_p$  --.

Column 8, line 14: " $R = R_0 \cdot [1 + \alpha_p (T - T_0)]$ " should be --

$$R = R_0 \cdot [1 + \alpha_p (T - T_0)] \text{ --.}$$

Column 8, line 17: " $\alpha_p$ " should be --  $\alpha_p$  --.

Column 9, line 8: " $T_c = T_a + \eta W = T_a + \eta \cdot I_c^2 R_c = T_a + \eta \cdot I_c^2 R_0 \cdot [1 + \alpha_p (T_c - T_0)]$ " should be --

$$T_c = T_a + \eta W = T_a + \eta \cdot I_c^2 R_c = T_a + \eta \cdot I_c^2 R_0 \cdot [1 + \alpha_p (T_c - T_0)] \text{ --.}$$

Column 9, line 22: " $\varepsilon = \alpha_p \eta I^2 R_0$ " should be --  $\varepsilon = \alpha_p \eta I^2 R_0$  --.

Column 9, line 64: " $R \approx R_0 \cdot \{1 + \alpha_p [(T_a + \eta \cdot W) - T_0]\}$ " should be --

$$R \approx R_0 \cdot \{1 + \alpha_p [(T_a + \eta \cdot W) - T_0]\} \text{ --.}$$

Column 10, lines 11-12: " $R_s = R_0 \cdot \{1 + \alpha_p [(T_{a,s} + \eta_s \cdot W_s) - T_0]\} \approx R_0 \cdot \{1 + \alpha_p [(T_a + \eta \cdot W_s) - T_0]\}$ "

$$\text{should be -- } R_s = R_0 \cdot \{1 + \alpha_p [(T_{a,s} + \eta_s \cdot W_s) - T_0]\} \approx R_0 \cdot \{1 + \alpha_p [(T_a + \eta \cdot W_s) - T_0]\} \text{ --.}$$

Column 10, line 32: " $\alpha_p$ " should be --  $\alpha_p$  --.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Steven J. Hultquist  
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16 2007.

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

Page 2 of 2

PATENT NO. : 7,193,187

APPLICATION NO.: 10/775,473

ISSUE DATE : March 20, 2007

INVENTOR(S) : CHEN, Ing-Shin, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 11, line 23: " $R_s \approx R_0 \cdot \{1 + \alpha_p [(T_a + \eta \cdot W_s) - T_0]\} = R_a + \alpha_p \eta \cdot R_0 \cdot W_s$ " should be --  

$$R_s \approx R_0 \cdot \{1 + \alpha_p [(T_a + \eta \cdot W_s) - T_0]\} = R_a + \alpha_p \eta \cdot R_0 \cdot W_s$$
 --.

Column 12, line 51: "can be ed as" should be -- can be determined as --.

Column 13, line 26: " $I^1(R_s - R) \ll \Delta W$ " should be --  $I^2(R_s - R) \ll \Delta W$  --.

Column 14, line 2, "provided as a input"

Column 18, lines 3-4 (claim 14): " $\Delta W = 2 \cdot \frac{m}{\alpha_p \times t \times R_0} \cdot [R_s - R]$ " should be --

$$\Delta W = \frac{m}{\alpha_p \times t \times R_0} \cdot [R_s + R(0) - 2R] --.$$

Column 18, line 65 (claim 18): " $\alpha_p$ " should be --  $\alpha_p$  --.

Column 19, line 55 (claim 20): " $\alpha_p$ " should be --  $\alpha_p$  --.

Column 20, line 22 (claim 21): " $\alpha_p$ " should be --  $\alpha_p$  --.

Column 20, line 65 (claim 22): " $\alpha_p$ " should be --  $\alpha_p$  --.

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